Catalytic Condensation of Acetylene With Aromatic Amines. XXX. Catalytic Synthesis of m-Nitro-, Amino- and Sulfamido-79-11-44/56 Derivatives of 2-Phenylquinoline and 2-Phenyl-5,6-Benzoquinoline

> $\beta\text{-naphthylamine;}$  from the aromatic aldehydes - m-nitr $\pmb{\sigma}\text{-}$ benzaldehyde. They synthesized a number of ni roderivatives of 2-phenylquinoline and 2-phenyl-5,6-benzoquinoline (see table 1). Thus the authors obtained a number of nitro-, amino- and sulfamido-derivatives of 2-phenylquinoline and 2-phenyl-5,6-benzoquinoline, of which 26 were hitherto not There are 2 tables, and 16 references, 9 of which are Slavic.

ASSOCIATION: Perm! State University (Permskiy cosudarstvenny) universamet).

September 4, 1956

AVAILABLE: Library of Congress

l. 2-Phenylquinoline - Derivatives - Synthesis 2.

2-Phenyl-5,6-benzoquinoline - Derivatives - Synthesis Card 2/2 Acetylenes - Catalytic condensation 3.

Amines - Catalytic condensation

#### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

AUTHORS:

Kozlov, N. S., Koz'minykh, O. K.

20-114-4-29/63

TITLE:

A Catalytic Synthesis of Para-, Nitro-, Amino-, and Sulphamido-derivatives of 2-Phenylquinoline and 2-Phenyl-5,6-Benzo-quinoline (Kataliticheskiy sintez para-, nitro-, amino- i sul'famidoproizvodnykh 2-fenilkhinolina i 2-fenil-5,6-benzo-

khinolina)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 4,

pp. 785-788 (USSR)

ABSTRACT:

The nitro- and aminoderivatives of 2-phenylquinoline and 2--phenyl-5,6-benzoquinoline have been described in publications only as individual representatives. The sulphamidoderivatives of this serieswere not discussed at all. Nevertheless, the considerable anti-bacteriological effect of some amines and sulphamides of the quinoline series well known. For the purpose of producing the nitroderivatives of the 2-phenyl-quinoline the authors employed the well-known method of the catalytic condensation of acetylene with aromatic amines and aromatic aldehydes. Thereby the substances with aromatic amines and aromatic aldehydes. Thereby the substances I - III (tablé 1) were synthetised /6-methoxy-2-(4<sup>1</sup>-nitrophenyl)-

Card 1/4

A Cotolmii - -

A Catalytic Synthesis of Para-, Nitro-, Amino-, and Sulphamido- 20-114-4-29/63 derivatives of 2-Phenylquinoline and 2-Phenyl-5,6-Benzoquinoline

-quinoline-C<sub>16</sub>H<sub>12</sub>O<sub>3</sub>N<sub>2</sub>; 6-ethoxy-2-(4<sup>1</sup>-nitrophenyl)-quinoline C<sub>17</sub>H<sub>14</sub>O<sub>3</sub>N<sub>2</sub> and 2-(4<sup>1</sup>-nitrophenyl)-5,6-benzoquinoline C<sub>19</sub>H<sub>12</sub>O<sub>2</sub>N<sub>2</sub>/. Into the condensation reaction the authors introduced p-nitrobenzaldehyde and aromatic amines: p-anisidine, p-phenetidine and 2-naphty lamins The nitro compounds obtained were then transformed into amines by the usual methods of reduction. Thereby the substances IV - VI (table1) were isolated /6-methoxy-2 (4<sup>1</sup>-aminophenyl)-quinoline C<sub>16</sub>H<sub>14</sub>ON<sub>2</sub>; 6-ethoxy-2(4<sup>1</sup>-aminophenyl)-quinoline C<sub>17</sub>H<sub>16</sub>ON<sub>2</sub> and 2-(4<sup>1</sup>-aminophenyl)-5,6-benzoquinoline C19H14N2/. From the amines thus produced a number of sulphamidoderivatives of 2-phenylquinoline and of 2-phenyl--5,6-benzoquinoline (compounds VII - XXX, table2) was synthetized by condensation in the pyridine medium of the produced amines with chloroanhydrides of different sulfo acids: with benzenesulfochloride,  $\beta$ -pyridinesulfochloride, m- and p-nitrobenzenesulfochlorides. The compounds I - XXX have hitherto not been described in publications. This work was successful in completing the method of synthesis,

Card 2/4

A Catalytic Synthesis of Para-, Nitro-, Amino-, and Sulphamido- 20 114-4-29/63 derivatives of 2-Phenylquinoline and 2-Phenyl-5,6-Benzoquinoline

previously proposed by Kozlov, for the 2-phenyl derivatives of the quinoline, by starting with acetylene, aromatic amines and aldehydes. The principle of the method is based on the fact that a mixture of a primary aromatic amine and an aromatic aldehyde is saturated with acetylene in the presence of a catalyst. According to the authors' opinion of the reaction mechanism, the half amount of the aromatic amine forms a basis of interaction with the aromatic aldehyde; the other half of the same aromatic amine forms with acetylene the corresponding monoethylide basis. There then follows the interaction between thus obtained bases with one another, from which an intermediate product results which was insulated in one case and examined for its composition. The substance in which the intermediate product was formed is subsequently subjected to cyclisation by the thermal method and to heating with HCl of 10%. The intermediate product transforms into 2-phenylderivatives of the quinoline series. It was aniline that reacted most actively with acetylene. This the authors exploited for working out a new technique: they added an equimolecular amount of aniline to the produced basis of

Card 3/4

#### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

A Catalytic Synthesis of Para-, Nitro-, Amino-, and Sulphamidoderivatives of 2-Phenylquinoline and 2-Phenyl-5,6-Benzoquinoline

any aromatic aldehyde and amine and then saturated the thus obtained reaction matter with aniline in the presence of a catalyst. This makes the synthesis of the phenylquinoline bases still more accessible, increases the yields, and confirms previous opinions of Kozlov regarding the mechanism of these syntheses which is referred to here. Finally the technique is described in details. There are 2 tables and 12 references, 12 of which are Soviet.

ASSOCIATION:

Molotovskiy gosudarstvennyy universitet im. A. M. Gor'kogo (Molotov State University imeni A. M. Gor'kiy)

and a state of the Ass.

PRESENTED: March 1, 1957, by A. A. Balandin, Member, Academy of Sciences,

SUBMITTED: February 26, 1957

Card 4/4

5.3900

68269 SOV/81-59-10-34896

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 189 (USSR)

AUTHOR:

Koz minykh, O.K.

TITLE:

The Catalytic Synthesis of Nitro-, Amino- and Sulfamido-Derivatives of 2-

-Phenylquinoline and 2-Phenyl-5,6-Benzoquinoline

PERIODICAL:

Uch. zap. Permsk. un-t, 1958, Vol 15, Nr 4, pp 111-127

AESTRACT:

The following substances were synthesized by the catalytic condensation of acetylene with aromatic amines and aldehydes: 6-R-2-(3'-nitrophenyl)--quinolines (Ia-d, here and further on a R = H, b R = CH<sub>3</sub>, c R = OC<sub>2</sub>H<sub>5</sub>) 6-R-2-(4'-nitrophenyl)-quinolines (IIc, d), 7-R-2-(3'-nitrophenyl)-quinoline (IIIb), and 2-(3'-nitrophenyl)- and 2(4'-nitrophenyl)-5,6-benzoquinolines (IV and V) were also obtained. The substances Ic, d were reduced by Sn and HCl to the corresponding 6-R-2-(3 -aminophenyl)-quinolines (VIc, d); in an analogous way IIc, d were reduced to 6-R-2-(4'-aminophenyl)-quinolines (VIIc, d); the substances IV and V were also reduced to the corresponding amino-derivatives (VIII and IX). Several sulfamido-derivatives which are of biological interest have been synthesized by the condensation of amino-derivatives with the corresponding sulfochlorides: 6-R-2-(3'-R'-benzenesulfamidophenyl)-quinolines (Xc, d; here and later on R' = H, n-OCH3, Ju--NHCOCH3, n-NHCOCH3, M-NH2 and n-NH2), 6-R-2-(4'-R'-benzenesulfamido-

Card 1/3

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0008259200

68269 sov/81-59-10-34896

The Catalytic Synthesis of Nitro-, Amino- and Sulfamido-Derivatives of 2-Phenylquinoline and 2-Phenyl-5,6-Benzoquinoline

phenyl)-quinolines (XIc, d), 2-(3'-R'-benzenesulfamidophenyl)- and 2-(4'-R'-benzenesulfamidophenyl)-5,6-benzoquinoline (XII and XIII), 2-(3'-3-piridylsulfamidophenyl)- and  $2-(4!-\beta-piridylsulfamidophenyl)-5,6-benzoquinolines (XIV and XV), 6-R-2-(3!-3-piridyl$ sulfamidophenyl)-quinolines (XVIc, d) and 6-R-2-(4'- \beta-piridylsulfamidophenyl)-quinolines (XVIIc, d). A solution of 84 mmoles of M-nitrobenzalaniline in 80 ml alcohol containing 88 mmcles of aniline and 5 g HgCl2, is saturated with acetylene (20 hours, 70 -- 80°C), it is alkalized by 20% NaOH, the volatile substances are distilled off with water steam, the residue is poured into cold water, the product is dissolved in ether, the solvent is distilled off, the residue is dissolved in a mixture of alcohol with concentrated HCl (2:1), the product is precipitated with picric acid and Ia is separated, yield 27%, m.p. 122 - 123 (from alcohol); picrate, m.p. 179 - 180. In an analogous way were optained (here and later on the substance, the yield in %, m.p. in °C and m.p. in OC of its picrate are indicated): Ib, 30, 142 - 142.5, 190 - 190.5; Ic, 46.7, 135-5 - 136 (from acetone), 196 - 197; Id, 50, 142.5 - 143 (from acetone), 235 - 236; IIc, 40.5, 156 - 157 (from acetone), 222 - 224 (decomp.); IIc, 45.6, 140 - 141 (from acetone), 222 - 224 (decomp.); 187 - 188; IIIb, 47.6, 158, 185 - 186; IV, 55.5, 182 - 183 (from C5H5N), 240 (decomp.); V, 50, 196.5 - 197 (from C5H5N), 142 - 143. 9.5 g Ic, 60 ml of concentrated HCl and 20 g Card 2/3

68269

The Catalytic Synthesis of Nitro-, Amino- and Sulfamido-Derivatives of 2-Phenylquinoline

Sn are heated for 8 hours at 80 - 90°C, gradually adding 20 - 30 ml of alcohol, it is alkalized by NaOH and VIc is extracted with acetone, 61.2, 127-128 (from acetone), 133 -235 (decomp.). In the same way are obtained VIc, 80.3, 159.5 - 160 (from C5H5N), 202 (decomp.); VIIc, 51.1, 220 - 221 (from C<sub>5</sub>H<sub>5</sub>N), 189 - 190 (decomp.); VIId, 70.4, 188 -(decomp.); VIIC, 21.1, 220 - 221 (Irom Ograph), 103 - 130 (decomp.); VIII, 65, 218 - 219 (from aqueous C5H5N), 245 - 246 (decomp.); IX, 81.9, 218 - 219 (from C5H5N), 181 - 182. To a suspension of VIC in C5H5N a small excess of C6H5SO2Cl in C5H5N is added, the whole is heated for 2 hours and Xd (R = H), yield 78.3% is separated, m.p. 208 - 2090C (from acetone). In a similar way are obtained (here and later on the substance, R' and m.p. in °C are indicated): Xc, H, 191 - 192; n-OCH3, 137 - 138; M-NHCOCH3, 214 - 215; n-NHCOCH3, 217 - 218; Xd, n-OCH3, 183 - 184, M-NHCOCH3, 199 - 200.5; n-NHCOCH3, 219; XIc, n-OCH3, 182 - 183; M-NHCOCH3, 213 - OTH COCH3, 182 - 183; M-NHCOCH3, 213 - OTH COCH3, 183 - OTH COC 213 - 214; XId, n-ocH<sub>3</sub>, 232 - 233; *u*-NHCOCH<sub>3</sub>, 209 - 211; XII, H, 201 - 202; n-ocH<sub>3</sub>, 170 - 171, μ-NHCOCH<sub>3</sub>, 237 - 238, n-NHCOCH<sub>3</sub>, 233 - 234 (decomp.); XIII, H, 229 - 230, n-OCH<sub>3</sub>, 229 - 230, μ-NHCOCH<sub>3</sub>, 250 (decomp.), n-NHCOCH<sub>3</sub>, 215 - 216; XIV, -, 164 - 175; XV, -, 241 (decomp.); XVIc, -, 190, XVId, -, 209 - 210; XVIIc, -, 224 - 225; XVIId, -, 215 - 215.5. Xc (R' = M-NHCOCH3) is hydrolyzed with hot H2SO1, and Xc is separated (R! = M-NH<sub>2</sub>), 227 - 228 (decomp.). In a similar way are obtained Xc, n-NH<sub>2</sub>, 195 - 197; Xd, μ-NH<sub>2</sub>, 203 - 204; n-NH<sub>2</sub>, 213 - 214; XIe, μ-NH<sub>2</sub>, 225 - 226, XId, μ-NH<sub>2</sub>, 211 - 212; XII, μ-NH<sub>2</sub>, 199 - 200, n-NH<sub>2</sub>, 224 (decomp.); XIII, μ-NH<sub>2</sub>, 254 - 255; n-NH<sub>2</sub>, 225 - 227. L. Shchukina

### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825920

weahch pirid iniya, inina and u Mater print print print	Ed.: 3. Bereanova; Tech. Ed.: A. KJravings; Elitorial Board.  Vance, Candidate of Chemistry, E. V.  Vance, Candidate of Chemistry, E. V.  Doctor of Chemistry, and N. N. Kalnyn.  FURFOR: This book is intended for organic chemists and CONTRAGE. The collection contains 33 articles and CONTRAGE. The collection contains 33 articles on methods that destructives from natural sources. No personalities the method of syntheting or producing synthine, quinoline, and the method of the articles. The collection natural sources. No personalities the articles.	II. STATHETIC MEANS OF FEETARING PRAIDINGS AND QUINOLINES OF PEETARING PRAIDINGS AND QUINOLINES OF TEACHER OF STATES OF THE STAT	Versa, G. Va. [Institut organiclesszgo sintera Akidemii nauk Jettyjäköy Sig [Institut organiclesszgo sinteras of the Aradary of Stences latetyskaya SIN); The Transition  From L.J. Indantione to Pyridine Darliacityes  Exten. M.M. [Institut vysokomolekulyarnykn soystinenty Aradarii nauk SISM (Institut for High Molevular Compounds of the Aradary of Stences USIN); Syriatine and spineri Inter Series of Compounds of the Pyridine and Quino- Inter Series (Enersity); Syriatine and Quino- Ariathry B. I. [Mostowskir gosmiarsvennyy universitet Barra Sta'e University); Endistrial Sprinks of Leptine Barra (Physical M.M. [Physiky soliakokowykayavannyy institut	quisolante Bases From Accountate); Catalyt: Synthasis of 131 quisolante Bases From Accountation and Autyland 131 quisolante Bases From Sodium Anyl Antildan and Synthaesis of 139 quisolanta from Sodium Anyl Antildan and Synthaesis of 139 mily and the All Anylong Standard and Synthaesis of 139 mily and 131 mily and 13	Moslow, M. S., and O. K. Moslanusha. (Pernakay gosadamstvenny) prodesiytichesisiy institute. [Pernakay gosadamstvenny) prodesiytic Synthases of 2-Phenyl - S. C.
		and the second s			
			O.K	Hykviw,	207

	_ <u>/</u>	<ol> <li></li> </ol>	<u>Z</u>	'n	7//	ν) 	1K	Ή <u>,</u>	<u>V.</u> i	<u>).                                    </u>			200   	to.	e Series Derit	9411		. \$	1			•							•
110 to the second of the secon	•	of Technical Sciences. Method of Thermal Parange of Technical Sciences. Method of Thermal Parange of Technical Sciences.	٠.	-		Drie, Lake, Definer. Investigation of Electric Drive Systems With Continuous Festive Voltage Festivak	Burgin, N.Sh., Engineer. Punction Generator in Electric Drive Circuits 199	Electric Mechine Regulation With a Constant Control Signal 155  TopThebb Addr Empireer. Circuit of an Automatic Capacitor-Start Motor	Pressing Part, Cardinate of Technical Sciences, Automatic Entition Repaired in the Cardinate Statement Section 133  Properties 1, Land Cardinate of Technical Sciences. Static Press of Properties Cardinate Sciences.	Embersity, Jest., Docest, Candidate of Technical Sciences, and I.T. Laust.  and I.C. Maporelacho, Englasers. Control of D-C Generators Operating  Bader Variable Assymmetrical Polarity Conditions  152	Sergal, R.J., Engineer, and O.F. Nethanorskiy, Condidate of Rechmical Missours. Serveystems Mith Phase Measurement of the Missatch ingle* 148	Baltaren, M.T., Candidate of Technical Sciences. Dynamic Properties of Control Systems for D-C Drives With Nagnetic Amplifiars	PART. GENERAL PROLIEG CONCENTED HE HE RE NO OWNER.	er in the journal Trickt-Lobestre are marked with an asterisk. So personalities	where it inher and conlinear actomatic regulation on our managers and to porte already published in journals or official publications have been considered which the publications have been considered.	comment automatic control systems, including systems with sentenductor devices and separtic amplifiars, and to computer intended better the sentenductor devices	drive and their collation are cutlined. The book also contains articles on electric trie meahinery and means of mitmatic. The book also contains articles on elec-	would ensure a relatively systematic presentation of the reports in a vey which problems relating to electric drives and extensitio control of industrial and practical states and extensition controls of industrial and practical states are several to controls of industrial and practical states are several to controls of industrial and practical states are several to controls of industrial several	building of the Legiture of Science of the Andrey of Sciences USER). It was the purpose of the Zither's Inches of the Andrey of Sciences USER).	of bergettes), the THILD, the LH (LAR CAR OTHER), the PHI (Voices Institute of the Academy of Sciences UNIX), and the Laminstyn po thimologic marking and the Laminstyn po thimologic marking and the Laminstyn po thimologic marking the company of t	Jean's (USER Sational Committee on Automatic Control) and prepared by the mod Stebalcal Committee on Automatic Control) and prepared by the mod Stebalcal Committee on Automatic Committee Committee on Automatic Committee on Automatic Committee Commi	Emiliat po aviousitateii i manihinoitoyemiyu (State Committee on intomation and backine Building) and the Mateional by Emiliat 200	Building and attemated Electric Drives in Industry half in Macon on May 12-16, 1999. The Conference was called by the Leadery of Sciences USES, the Gorphan SESS (State Premiser Conference was called by the Leadery of Sciences USES, the	COVERAGE: The book is a collection of reports submitted by scientific verters at plants, solentific institutes and schools of higher shoution at the third Joint but higher the second of the collection of the co	recome and collection of reports is intended for the simulation and schoical personnal of scientific research institutes, plants and schools of higher observation.	General Eds.: I.L. Petror, A.d. Sirotin, and M.G. Chilskin; Eds.: I.I. Sud, and E.P. Milaywe; Tesh. Eds.: E.P. Foronis, and G.Fs. Larionov.	ALEKTOPITOG I artematisataja prompalezajah ustanorak traty seresbohataja (Kimitzia Drive ed datemation in Industrial Spriema) framaciones of the Con- ference) Mescow, Gosenarguisdat, 1950. 470 p. 11,000 copies printed.	prisessor v mashinoskypani i erdomskisirvranomu alektroprisrodsvennyth moski. M., Mosoo, 1959	Teeogramore obligations and the second of the second of the second obligation obliga
					·	و.	,					-				2)					. •							•	٠.

KozminyKH, Juk

AID P - 5144

Subject

: USSR/Engineering

Card 1/1

Pub. 103 - 3/18

Authors

: Koz'minykh, Yu. K. and S. T. Shevakhin

Title

: Heat-treatment section of the bearing automatic shop

Periodical: Stan. i instr., 5, 10-14, My 1956

Abstract

: The authors describe the automatic processing of inner and outer ball and roller bearing rings. The heat and cold treatment, sorting, washing, drying, tempering, and finishing of the rings as practiced at the First State Bearing Plant - 10PZ (Moscow) are discussed. Two tables,

3 graphs and 6 drawings:

Institution: Experimental Scientific Research Institute of the Bearing

Industry (ENIIPP).

Submitted

: No date

Kozminykh, Ju. K.

Subject

: USSR/Engineering

Card 1/1

Pub. 103 - 2/20

Author

: Koz'minykh, Yu. K.

Title

: Conveying Facilities in the Turning Section of Automatic

AID P - 4201

Line for Manufacturing of Bearings.

Periodical

: Stan. 1 instr., 1, 7-13, Ja 1956

Abstract

The author presents the design and operation of typical conveying facilities in the turning section of automatic lines for production of the 781-5K1-type bearings. The movement of blanks for inner and outer rings of these bearings forged from the ShKh15-type of steel, the automatic bunkers, lifters and conveyers, feeders, shutes,

retarders, worm-conveyers for shavings, and the system

for blocking and feeding parts are described and

illustrated. Nine drawings.

Institution: None

Submitted : No date

VIASOV, S., inshener; IOZ'MINYKH, Yu., inshener.

Visiting a bearing manufacturing plant. IUn.tekh. ne.1:60-64
Ja '57. (MIRA 10:3)

1. Glavnyy komstrukter proyekta avtomaticheskikh linii podshipmikev (fer Vlasev). 2. Veduyushchiy konstrukter avtomaticheskikh linii podshipmikov (fer Kos'minykh).

(Bearing industry)

VIASOV, S.R., inshener; KOZ'MINYKH, Yu.K., inshener.

Contralized system for feeding cooling liquid in grinding machines.

Vest, mash, 37 no.7:59-62 Jl '57. (MIRA 10:8)

(Metalworing lubricants) (Grinding machines)

VIASOV, S.N.; KOZ'MINTKH, In.K.

Automatic equipment used for demagnetization of bearing rings and assembled bearings. Stan, 1 instr. 29 no.2:26-28 F '58. (MIRA 11:3)

(Bearings (Machinery)—Magnetic properties)

VIASOV, S.N.; KOZ'MINYKH, Yu.K.

Feeding and discharging equipment for machine tools used in automatic bearing-production lines. Stan.i instr. 29 no.5:15-19
My '58.

(Machine tools--Attachments) (Bearing industry)

BOBROV, V.P., kand. tekhn. nauk; KOZ'MINYKH, Yu.K., inzh., retsenzent; NALOV, A.N., prof., red.

[Design of feeding and conveying devices for machine tools and automatic lines] Proektirovanie zagruzochne-transportnykh ustroistv k stankam i avtoraticheskim liniam. Moskva, Mashinostroenie, 1964. 200 p. (MIRA 18:1)

### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825920

ii (Cooled — arl (ed 2772) ( Ploostona (el 1820) de 1820				0/009/0168/01	
Almioric gosestingen stars	,				
ALEYAN ONE CONTROL OF CHEST STATES		r dicertors	v/ -\-\-\-\-\-\-	ineion of the	
SOURCE) Zhiene salvensto		(interpretation	i saktoobitol	6 <b>5:</b> 54 103 93	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
Augusta Anna Anna Anna Anna Anna Anna Anna An					
				in the cital	
Asian (Copedo se sens as as					
(Williams) Estation		า เก็บ	Öğ e	Bun <b>ww</b>	55   <b>G</b>
NO RELIGIO (CO)		OTUBLI	(CO	OPE	
Care 2/17/95					

## BROSS, Wiktor; KOZMISKI, Stefan

Arterioplasty in arteriosclerotic ischemia of the lower extremities. Pol. przegl. chir. 35 no.12:1343-1351 D\*63

1. Z II Kliniki Chirurgicznej AM we Wroclawiu; kierownik: prof.dr. W.Bross.

#### KOZMODEM'YANSKIY, V.V.

Geology and oil potential of the Uzen'-Zhetybay tectonic bench based on exploratory drilling data. Geol. nefti i gaza 6 no.ll: 9-11. N 162. (MIRA 15:12)

1. Trest Mangyshlaknef segazrazvedka.

KOZMODEM'YANSKIY, V.V.; NURMANGV, A.M.

Propering regions for prospecting drilling in southern Mangyshlak Peninsula. Neftegaz. geol. i geofiz. no.4: 14-17 '64. (MIRA 17:6)

1. Trest "Mangyshlakneftegazrazvedka."

VYALOVA, R.I.; D'YAKOV, B.F.; IMASHEV, N.U.; KOZ'MODEM'YANSKIY, V.V.; KFAYEV, P.I.; KRUCHININ, K.V.; TOKAREV, V.P.; TRIFONOV, N.K.; CHEREPANOV, N.N.

Southern-Mangyshlak oil- and gas-bearing region. Trudy VNIGRI no.218:7-50 '63. (MIRA 17:3)

# VOKLOV, A.; KOZ'MODEM'YANOV, Ye.A.

SKG-3 combine on fields of the Far East. Tekh. v sel khoz. 20 no.6:57-58 Je '60. (MIRA 13:11)

1. Blagoveshchenskiy sel'skokhozyaystvennyy institut. (Soviet Far East-Combines (Agricultural machinery))

ZAYTSEV, I.M., inzh.; VOLKOV, A.T., inzh.; KOZMODEM'YANOV, Ye.A., kand.tkehn.

Machinery for growing soybeans. Mekh. i elek. sots. sel'khoz. 19 no.2:8-9 161. (MIRA 14:3)

1. Amurskiy oblispolkom (for Zaytsev). 2. Blagoveshchenskiy sel'skokhozyaystvennyy institut (for Volkov and Kozmodem'yanov). (Soybean) (Agriculutral machinery)

D'YAKOV, B.F.; IMASHEV, N.U.; KRUCHININ, K.V.; KOGAN, A.B.:

<u>KOZMODEM'YANSKIY, V.V.;</u> TOKAREV, V.P.; TRIFONOV, N.K.

CHEREPANOV, V.N.; VYALOVA, R.I.

Southern Mangyshlak is a large new oil-bearing region. Geol. nefti i gaza 5 no.12:4-11 D '61. (MIRA 14:11)

1. Vsesoyuznyy nefteyanoy nauchno-issledovatel'skiy geologorazvedocheskoye upravleniye i trest Mangyshlakneftegazrazvedka. (Mangyshlak Peninsula—Oil fields)

KOZMOV, K. inzh.

Ten years of interdepartmental Machinery Industry Organization "Mashproekt." Mashinostroene 10 no.11:1-2 '61.

1. Kirektor na "Mashproekt."

KOZMUTZA, P.

KCZMUTZA, P. Economic production and its indexes. p. 352.

No. 9, Sept. 1955. MAGYAR TEXTILITECHNIKA. TECHNOLOGY Eudepest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825920

KOZMUTZA, P.

Encouraging economizing of secondary materials. P. 107 MAGYAR TEXTILECHNIKA Budapest No. 3, Mar. 1956

SOURCE:

East European Accessions List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

KOZMUTZA, P.

Evaluation of innovations and their relationship to decreasing prime cost. p. 69. TOBETHINGLES. Budapest. Vol. 9, No. 8/9, Aug./Sept. 1956

SOURCE: East European Accesssions List (EEAL) Library of Congress Vol. 5, No. 6, June 1956

marva. A. F.

E Entropy, F. The relationship between the producer's price and profitableness; remarks should be a Possier's article with Incoments Indees and the Profitableness of Industrial enterprises." p. 32.

Vol. 10, no. 7, July 1956 TOEMURNEL C Endapost, Non, any

Th: Mad. Mimercan Acception, Vol. 7, Me. 5, May 1057

KOZMUTZA, P.

The Brussels International Exhibition point of view of textile industry. p. 457.

MAGYAR TEXTILTECHNIKA. (Textilipari Muszaki es Tudomanyos Egyesulet) Budapest, Hungary, Vol. 10, no. 11/12, Dec. 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

KOZMUTZA, Pal, dr.

Beconcery of machine investments. Magy textil 13 no.8:357-360 Ag '61.

KOZMUTZA, Pal, dr.

Organizational method for forming a socialist brigade, workshop and enterprise. Munka szemlo 6 no.9:21-23 S \*62.

#### KOZMITZA, Pal, dr.

On the level of technology; a polemic article. Magy textil 14 no.8:377-379 Ag 162.

1. Magyar Gyapjufono es Szovogyar.

#### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920

Complex mechanization and automation of carded yarn spinning mills. Magy textil 15 no.11:518-522 '63.

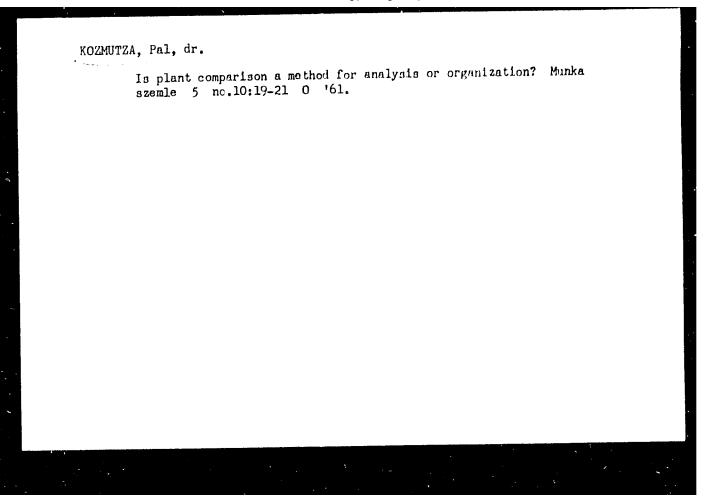
KOZMUTZA, Pal, dr.

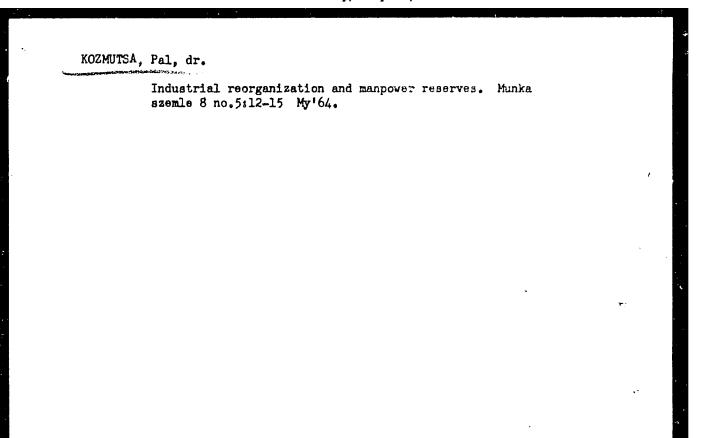
Organizational activity after the establishment of the Organizational Institute of the Light Industry. Magy textil 16 no.1:39-40 Ja\*64

KOZHUTZA, Pal, dr.

Exploitation of labor productivity reserves within the framework of the Council for Mutual Economic Assistance. Munka szemle 8 no. 3:7-10 Mr 164.

# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920



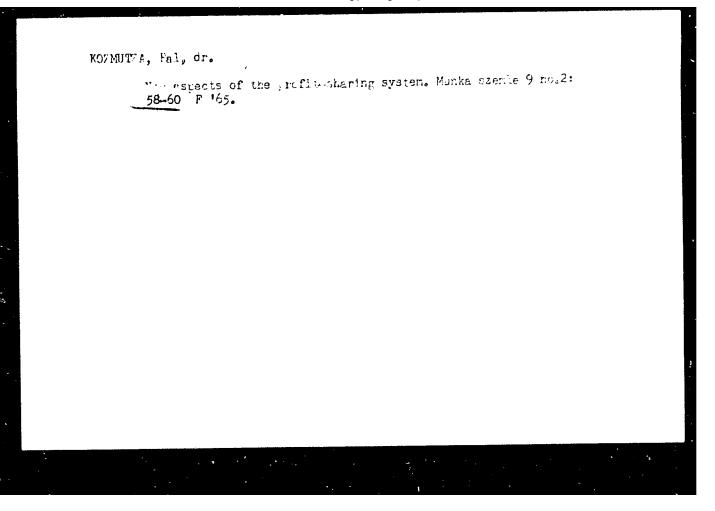


KOZMUTZA, Pul, dr.

World level and product development. Magy textil 16 no. 6: 253 Je '64.

1. Light Industry Organization Institute, Budapest.

# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920



# KOZMUTZA, Pal, dr.

Technical organizational tasks of fixed assets economy. Magy textil 17 no.3:140-142 Mr '65.

1. Light Industry Organization Institute, Budapest.

# Interaction of antegenistic manules in viciding work. Ehur. vys. nerv. deiat. 15 no.::61-69 fa-F 165. (MIRA 18:5) 1. Institut vysskay nervncy degatelinosti i negrofiziologii AN SSSR.

# KOZNAECKA, Alicja; RADWANSKA, Urszula

Intrauterine fetal hemorrhage into the maternal circulation as a cause of neonatal anemia. Pediat. pol. 37 no.12:1335-1338 D '62.

1. Z I Kliniki Chorob Dzieci AM w Poznaniu Kierownik: prof. dr med.

T. Rafinski.

(INFANT NEWBORN DISEASE) (ANEMIA) (FETAL DISEASES) (HEMORRHAGE)

KOZNIEWSKA, Halina; WRONSKI, Jerzy; ZDERKIEWICZ, Edward

Procedures and results of the treatment of closed injuries of the skull and brain. Pol. tyg. lek. 19 no.28:1097-1099 13 - 20 Jl\*64

Z Oddzialu Neurochirurgii przy Klinice Neurologicznef Akademii Medveznej w Lublinie (kierownik kliniki: prof. dr. W. Stein; kierownik Oddzialu: doc. dr. H. Kozniewska.

KOZNAROVA, H.

News for women. p. 318

ZELEZNICAR. (Ministerstvo dopravy) Praha, Czechoslovakia Vol. 2, no. 6, 1959.

Monthly List of East European Accession (EEAI), LC Vol. 9, no. 2 Feb. 1960.

Uncl.

KOZNAROVA, M.

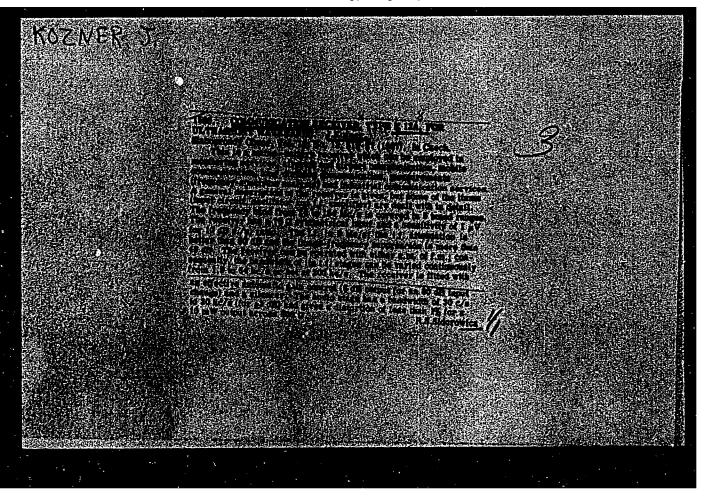
A trial in the city of ballistic missiles.

P. 30 (Ceskoslovensky Vojak) Vol. 6, No. 19, Sept. 1957, Czechoslovakia

SO: MENTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 1, JAN. 1958

- 1. T. M. KCZNEKO
- 2. US3R (600)
- 4. Cattle Breeding
- 7. Work practice of an artificial insemination station for cattle. Sots. zhiv. 15 no. 2. 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



GAFTEK, Ya.; KOZNEVSKAYA, G.; SELETSKIY, B.; SERPINSKIY, S.; STEMPEN', L.;

TOCHEK, S.

Investigations on the pathophysiological mechanisms of speech disorders in focal affections of the dominant hemisphere of the brain. Zhur. newr. i psikh. 55 no. 12:922-92? '55. (MIRA 9:2)

1. Otdel neyrokhirurgii Gosudarstvennogo psikhonevrologicheskogo instituta (dis.-prof. Z. Kuligovskiy) Varshava.

(SPERCH, DISCRIBERS, ettology and pathogenesis, brain lesions of dominant hemisphere)

(BRAIN, diseases, lesions of dominant hemisphere causing speech disord)

CIA-RDP86-00513R000825920

KRASZEWSKA, Z.; KOZNIEWSKA, H.; CICHECKA, I.

Rupture of the interventricular septum diagnosed during life and 3 1/2 year follow-up. Kardiol. Pol. 8 no.1:75-77 '65

1. Z II Kliniki Chorob Wewnetrznych (Kierownik: prof. dr. E. Gorzkowski) i z III Kliniki Chorob Wewnetrznych Pomcrskiej Akademii Medycznej w Szczecinie (Kierownik: doc. dr. M. Eisner).

KOZNIEWSKA, H.; WISLAWSKI, J; SLOWIK, T.

Epidermoid cyst of the spinal cord. Neur. &c polska 10 no.2:213-217 Mr-Ap '60.

Z Kliniki Neurochirurgii A.M. w Warszawie Kierownik: prof. dr med.
 J.Chorobski. (SPINAL CORD neopl)

GORZKOWSKI, Edward: KOZNIEWSKA, Helena

On clinical value of venour pressure in chronic circulatory insufficiency. Polski tygod.lek. 15 no.43/44:1662-1668 24 0'60.

1. Z II Kliniki Chorob Wewnetrznych P.A.M. w Szczecinie; kierownik: prof.dr med. Edward Gorzkowski.

(HEART FAILURE CONGESTIVE diag)

(BLOOD PRESSURE)

# KOZNIEWSKA, Halina

Analysis of speech disorders in focal lesions of the temporal lobe of the dominant hemisphere. Rozpr.wydz.nauk med. 6 no.2:33-54 161.

1. Z Zakladu Neurochirurgii Polskiej Akademii Nauk Kierownik: prof. dr med. Lucjan Stepien i z Panstwowego Instytutu Psychoneurologicznego w Pruszkowie Dyrektor: prof. dr med. Zygmunt Kuligowski.

(TEMPORAL LOBE dis) (SPEECH DISORDERS etio1)

HERMAN, E.; DOWZENKO, A.; KOZNIEWSKI, H.; MICHALSKI, T.; WENDER, M.; WARECKA, K.; HAUSMANOWA-PETRUSEWICZ, I.; CENDROWSKI, W.; JUS, K.

The 7th International Congress of Neurology in Rome; collective report. Neurol neurochir psych 12 no.3:455-468 My-Je 162.

1. Czlonek Korespondent Komisji Biometrii i Genetyki przy Swiatowej Federacji Neurologow (for Cendrowski).

POLAND

KICZAN, Janina, KOZNIEWSKA, Helena, and NENYCZ-48843COWA, Zofia; Second Clinic of Internal Diseases (If Klinika Chorob Wewnetrznych), PAM [Pomorska Akademia Medyczna, Pomeranian Medical Academy] in Szczecin (Director: Prof. Br. med. E. GORZKOWSKI)

"Pernicious Anemia Pollowing Partial Gastrie Resection, Report of Three Cases."

Marsaw-Krakow, <u>Przestad Lokuvski</u>, Vol. 19, Ser II, Se 7, 31 Jul 63, pp 316-318

Abstract: [Authors' English summary modified] Anthors describe three cases of pernicious anaemia, 13, 15, and 15 years following partial gastric resection, with typical clinical and hematological symptoms of pernicious anaemia, in the first two cases without, and in the third case with symptoms of myelosis funicularis, later confirmed by examination of the marrow. Treatment with vitamin 312 brought total remission of symptoms, no.mal red blood count, and — in the third case — regression of degeneration of funiculi. Authors discuss the characteristics, pathogenesis, and rarity of "gastric" pernicious anaemia. 24 refs: 1 Sov. 4 Porish. 1/1

1/2

KICZAK, Janina; KOZNIEWSKA, Helena; NENYCZ-GRABCOWA, Zofia

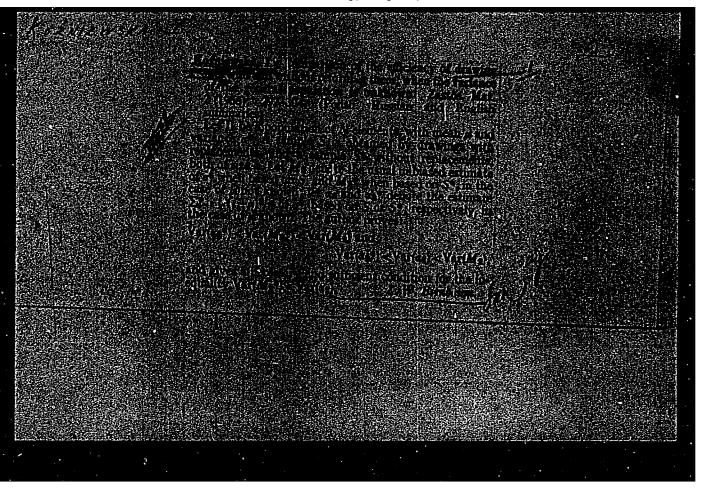
Addison-Biermer permicious anemia after partial gastric resection with reference to three cases treated by the authors. Przegl lek 19 no.7:316-318 '63.

1. II Clinic of Internal Diseases, Pomeranian School of Medicine, Szczecin. Head: Prof. dr med. E. Gorzkowski.

KOZNIFWSKA, Halina; BORKOWSKI, Tomasz; SLIWINSKA, Jadwiga; ABRAMOWICZ, Stanislaw; SWIETLICKI, Kazimierz; JESKE, Jozef.

Investigations on the action of urea in the reduction of intracranial pressure. Ann. Univ. Lublin sect. 0 19:21-35 \* 64

1. Oddział Neurochirugii Kliniki Chorob Nerwowych, Wydiał Lekarski AM w Lublinie (Kierownik Kliniki: prof. dr. med. Halina Kozniewska); Centralne Labor torium Kliniczne w Lublinie (Kierownik: prof. dr. med. Jozef Jeske).



# KOZNIEWSKA, I.

Comparison of the efficiency of drawing samples with and without replacement when the variance of the general population is unknown. In English. p. 232. (COLLOQUIUM MATHEMATICUM. Vol. 4, no. 2, 1957. Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 2, Dec. 1957. Uncl.

# KOZNIEWSKA, Ira

Asymptotic solutions of differential linear equations. Przegl statyst 8 no.4:401-413 '61.

P/523/62/009/002/002/003 A062/A000

Kozniewska, I. (Warsaw)

TITLE:

AUTHOR:

Ergodicity and stationarity of variable Markov chains with a finite

number of states

SOURCE:

Polska Akademia Nauk. Instytut Matematyczny. Colloquium mathematicum. v. 9, no. 2, 1962, 333 - 346 (Ergodicité et stationnarité des

chaînes de Markoff à un nombre fini d'états possibles; French)

The present paper is the continuation of anarticle published by the author a few years ago on the ergodicity of variable Markov chains with two TEXT: states (I. Kožniewska, Ergodicity of non-homogeneous Markov chains with two states. Colloquium mathematicum 5, 1958, 208 - 215). Its purpose is to generalize the previously obtained results to a finite number of states. In this research it was deemed convenient to study also the stationarity of the chains, because in the chain study this property is as important as the ergodicity. The Markov chains studied in this paper are discontinuous with a finite number of states. By hypothesis, they are not constant. Definitions are given of various

Card 1/2

Ergodicity and stationarity of variable Markov ...

P/523/62/009/002/002/003 A062/A000

types of Markov chains: weakly ergodic, strongly ergodic, extra ergodic, stationary, asymptotically stationary and asymptotically quasi-stationary, and ergodic of degree  $\alpha$ . Theorems are formulated and demonstrated on the conditions which are necessary and sufficient for a Markov chain to be weakly ergodic, strongly, ergodic or ergodic of degree  $\alpha$ , respectively. Some consequences of these theorems are noted and examples are given.

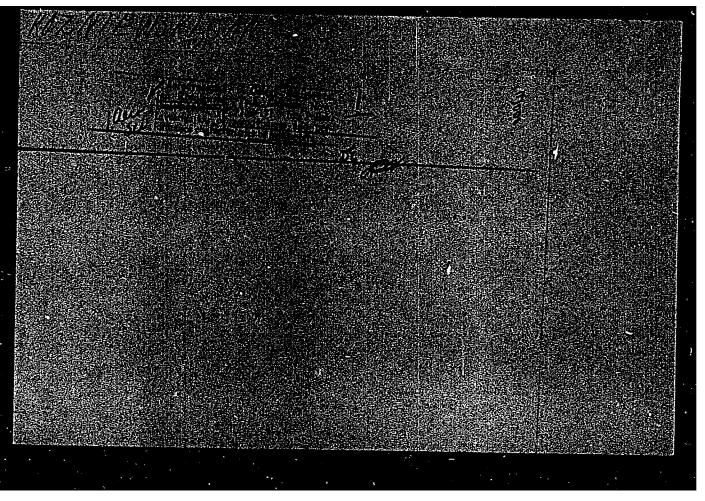
SUBMITTED:

November 11, 1961

Card 2/2

# KOZNIEWSKA, Irena

"Linear regression and its application in economy" by Z. Hellwig. Reviewed by Ira Kozniewska. Przegl statyst 8 no.4:449-450 '61.



APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008259200

KOZNIEWSKI, J.

Vertical take-off and landing aircraft.

P. 6 (TECHNIKA LOTNICZA) (Warszawa, Poland) Vol. 13, no. 1, Jan./Feb. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5. 1958

# KOZNIEWSKI, STANISLAW

KOZNIKWSKI, Stanislaw

Effect of adrenaline and acetylcholine on isolated segments of small and large intestines in horses. Acta physiol. polon. 5 no.4:519-521 1954.

1. Z Zakladu Fizjologii Zwierzat Wydz. Weterynaryjnego Szkoly Glownej Gospidarstwa Wiejskiego w Warszawie. Kierownik: prof. dr B.Gutowski.

(INTESTINE, effect of drugs on,
acetylcholine & epinephrine, isolated horse intestine)

(ACETYLCHOLINE, effects,
on intestine, isolated intestine in horses)

(EPINEPHRINE, effects, on intestine, isolated horse intestine)

# KOZNIEWSKI, Stanislaw; RAREJ, Wieslaw

Effect of acetylcholine, adrenalin and serotonin on movements of the rumen in sheep. Acta physicl. polon.11 no.2:291-303 Mr-Ap 160.

1. Z Katedry Fizjologii Zwierzat S. G.G.W.w Warszawie, Kiernownik: prof. dr B. Gutowski.

(ACETYICHOLINE pharmacol.)

(EPINEPHRINE pharmacol.)

(SEROTONIN pharmacol.)

(STOMACH)

GUTOWSKI, B.: KOZNIEWSKI, S.

Effect of CO2 on the respiratory reflex in birds. Acta physiol. polon.11 no.5/6:712 '60.

1. Z Katedry Fizjologii Zwierzat S.G.G.W. w Warszawie. Kierownik: prof.dr B.Gutowski.

(CARBON DIOXIDE pharmacol)
(RESPIRATION)

GUTOWSKI, B.; KOZNIEWSKI, S.; TEMLER, A.; BAREJ, W.; KULASEK, G.

Studies on the cecal contents in horses. Acta physiol.polon. 11 no.5/6:714 '60.

1. Z Katedry Fisjologii Zwierzat S.G.G.W. w Warszawie, Kierownik: prof.dr B.Gutowski. (CECUM)

# KOZNIEWSKI, S.

Observations on the effect of extra- and intra-intestinal application of neurohormones on gastric motility in vitre. Acta physiol.polon. 11 no.5/6:784-787 \*60.

1. Z Katedry Fizjologii Zwierzat S.G.G.W. w Warszawie. Kierownik: prof.dr B.Gutowski. (SEROTONIN pharmacol)

(SEROTONIN pharmacol)
(INTESTINES pharmacol)

### KOZNIEWSKI, S.

Determination of the rate of passage of the gastrointestinal contents in horses with permanent cecal fistulae. Acta physicl. polon.11 no.5/6:787-788 160.

1. Z Katedry Fisjologii Zwiersat S.G.G.W. w Warszawie, Kierownik: prof.dr. B.Gutowski.

(GASTROINTESTINAL SYSTEM physiol)

NUAL HIMSKI, Stanislaw SUCHAME (In Caps); Given Names

Country: Poland

Academic Degrees:

Chair of Animal Physiology, Veterinary Division, Central Affiliation: School of Agriculture (CGGM - Ezkola Glowna Gospodarstwa Wiejskiego), Warsaw; Director: Boleslaw GUTCUSKI, Prof dr Source: Warsaw, Medvcyna Weterynaryjna, No 4, April 1961; pp 236-240

Dita: "Rate of Passage of Foodstuffs through the Alimentary Tract of Horses with Permanent Fistula of the Caecum."

JACZEWSKI, Z.; GILL, J.; KOZNIEWSKI, S.

Regulation of blood pressure in the brown bear (Ursus arctos L.). Bul Ac Pol biol 9 no.5:227-229 '61. (EEAI 10:9)

1. Laboratory of Physiology, Municipal Zoological Garden, Warsaw and Laboratory of Game Animals Physiology, Polish Academy of Sciences, Popielno. Presented by W. Stefanski.

(BLOOD PRESSURE) (BEARS)

POLAND

KOZNIEWSKI, Stanislaw: Department of Animal Physiology Veterinary College, Superior School of Rural Economics (Katedra fizjologii zwierzat Wydzialu Wet. SGGW,) Head (Kierownik) Frof Dr Eugeniusz DOMANSKI, Warsaw.

"Indirect Recording of Movements in the Rumen of Cattle."

Lublin, Medycyna Weterynaryjna, Vol 21, No 10, Oct 65; pp 604-605.

Abstract: Description of 'rumenograms', kymogram-like recordings of internal movements in the rumen of 3 cows during rumination, recorded through the skin; discussion of the positive role of this technic in the discovery of causes of digestive disturbances in cattle. Four rumenograms.

1/1

## KOZNOV, A.

Creative approach to all work. MTO no.4:50 Ap 159. (MIRA 12:6) 1. Uchenyy sekretar' soveta pervichnoy organizatsii Nauchnotekhnicheskogo obshchestva na stroitel stve Naugarzanskogo plavikoipatovogo rudnika, g. Angren. (Angren--Mining research)

KOZNOV, A.M., inshener-ekonomist.

Solikamsk, the center of potassium fertilisers. Hauka i shisn' no.8:19-21 Ag '47. (MLRA 9:5)

(Solikamsk--Potassium salts)

26522

S/065/61/000/008/007/009 E194/E135

11.0170

AUTHORS: Losikov, B.V., Fat'yanov, A.D., Mikulin, Yu.V.,

Aleksandrova, L.A., Koznov, G.G., and Berezina, R.M.

TITLE: The use of residual fuels in gas turbines

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No. 8, pp. 47-53

The mechanism of deposit formation and corrosion in TEXT: gas turbines using residual fuels containing vanadium and sodium is discussed. Possible methods of avoiding the vanadium corrosion include injection into the combustion chamber of substances which react with vanadium pentoxide and the more convenient use of fuel The object of the present work was to check, on additives. typical materials used in gas turbines, the corrosivity of corrosion products of high-sulphur marine heavy-fuel grade 0 -5 (Fs-5) and to study the use of additives to reduce this corrosion. The tests were made on a model combustion chamber which had previously been used for testing high sulphur distillate fuels but for the present work fuel heating equipment was provided. test samples were made up as plates of 40 x 25 x 4 mm which were Card 1/4

The use of residual fuels in gas ....

26522 \$/065/61/000/008/007/009 £194/£135

placed in the path of flow of the combustion products. Corrosion was assessed by change in weight after the specimen had been exposed in the chamber and cleaned by electrolytic treatment in a solution of sodium carbonate and sodium hydroxide. It was found that corrosion is most intense in the first 2 - 3 hours and that it has reached a practically constant value at the end of 5 hours so that there was no need to continue the tests longer than this. The reference fuel was grade  $\Phi$ -12 (F-12) containing 130 parts per million sodium and no vanadium. The vanadium content of the other fuels ranged from 16 to 35 parts per million vanadium. The first tests were made with nickel base alloys DM -435 (EI-435) and 34-602 (EI-602) which show little vanadium corrosion at temperatures below 650-700 °C; however, at higher temperatures the rate of corrosion rises rapidly. Alloys based on iron such as grade Mi-481 (EI-481) are much more affected by vanadium than are the nickel alloys, particularly at the higher temperatures. the vanadium content of the fuel, the lower the temperature at which the rising inflection of the corrosion curve occurs. At a gas temperature of 800-850 °C appreciable corrosion is observed with 10 ppm vanadium in the fuel, whereas at 630-680 °C corrosion Card 2/4

The use of residual fuels in gas ....

26522 \$/065/61/000/008/007/009 E194/E135

increases appreciably only with fuel of 30 ppm vanadium or more. In general, at temperatures of 650-850 oc the combustion products of fuels containing 14 - 35 parts per million vanadium increased the rate of corrosion by a factor of 4 to 15, depending on the The effect of additives was checked on fuel grade F-12 alloy used. (no vanadium) and Fs-5 containing 27 parts per million vanadium and 9 parts per million sodium using alloys EI-602, EI-481 and The additives used were organic compounds of magnesium EI-417. that are readily soluble in heavy fuels but differing in the structure of the organic radical. The use of additive to the extent of 0.2% weight of fuel greatly reduced vanadium corrosion. shown that some organic magnesium compounds are much more effective than others. It is concluded that with 30 parts per million vanadium in the fuel the use of 0.016% magnesium in the form of soluble organic compounds practically completely prevents vanadium Tests were also made with injection into the combustion chamber of ammonia to the extent of 0.5% by weight of the fuel. This also practically prevents vanadium corresion of the nickel and iron alloys within the temperature range tested.

Card 3/4

The use of residual fuels in gas ....

26522 \$/065/61/000/008/007/009 E194/E135

Use of ammonia at the rate of 0.2% weight is less effective. The best results were obtained when the ammonia was injected before the combustion zone. A further advantage of using soluble compounds as against the suspensions sometimes used is that erosive wear of the turbine blades is reduced. A mechanism of action of the additives is suggested.

There are 6 figures, 1 table and 14 references: 5 English and 11 Soviet (including 3 translations from Proceedings of World Petroleum Congress VII). The four most recent English language references read as follows:

Ref.1: A. Garner, P. Green, R. Harper, F. Pegg. J. Inst. of Petrol., Vol. 39, 278, 1953.

Ref. 2: Proc. Inst. Mech. Eng., Vol. 168, No. 3, 1954.

Ref. 4: P. Lloid, R. Probert. Proc. Inst. Mech. Eng., Vol. 163, 206, 1950.

Ref. 9: H. King, H. Nutt. Trans. ASME, Vol. 78, No. 1, 185-196, 1956.

Card 4/4

steel

KOZNOV, N. A. Cand Tech Sci -- (diss) "The designing of floating jet-guiding street systems." Mos, 1958. 21 pp (Min of Higher Education USSR. Mos Inst of Engineers of Water Resources im V. R. Villyams), 110 Copies (KL, 13-58, 96)

-57-

KOZNOV, N.A., veterinarnyy vrach.

Combined method of treating trichomoniasis in cattle. Veterinariia 30 no.5:19-21 My '53. (MLRA 6:5)

1. Smolenskaya nauchno-issledovatel'skaya veterinarnaya opytnaya stantsiya.

KOZNOV, N. A.

KOZNOV, N. A. - "Scientific-Practical Foundation for Combatting Trichinosis of Cattle (from Materials of the Smolensk Oblast)." All-Union Inst of Experimental Veterinary of the Min of Agriculture USSR, Smolensk, 1955 (Dissertations for Degree of Candidate of Veterinary Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

KOZNOV, N.A.

Course of piroplasmosis in feals. Veterinariia 32 ne.3: 53-54 Mr 155. (MLRA 8:4)

1. Direkter Smelenskey nauchne-issledevatel\*skoy veterinarneepytney stantsii. (HORSES--DISEASES) (PIROPLASMOSIS)

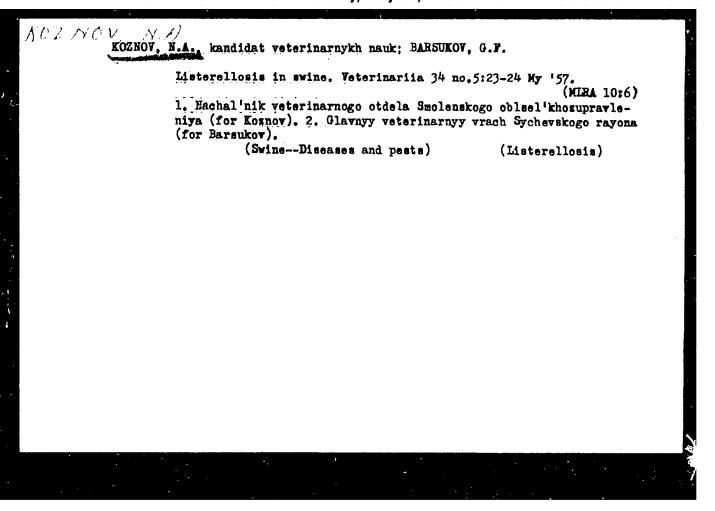
VOLOSKOV, P.A., prefesser; HELEN'KIY, M.L.; KOZHOV, N.A.

Experience in eliminating sterility in cattle. Veterinariia 32
ne-7:24-31 Jl '55. (MIRA 8:9)

1.Vsessyuznyy institut eksperimental'ney veterinarii (fer Veleskev).
2.Nachal'nik veterinarnege stdela Smelenskey eblasti (fer Belen'kiy).
3.Direkter NIVOS (fer Kezney).

(STERILITY IN ANIMALS)

## "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920



NOZNOUN A.

KOZNOV, N.A., kand. vet. nauk.

Elimination of foot-and-mouth disease in Smolensk Province districts. Veterinariia 35 no.1:50-51 Ja 158. (MIRA 11:2)

1. Nachal'nik vetotdela Smaolenskogo oblastnogo upravleniya sel'skogo khozyaystva.

(Smolensk Province--Foot-and-mouth disease)
(Veterinary medicine)

PETRUKHIN, I.V.; KOZNOV, N.A.; SHKUDOVA, R.I., red.; SAYTANIDI, L.D., tekhn.red.

[Trichomoniasis in cattle] Trikhomonoz krupnogo rogatogo skota. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1961. 119 p.

(Gattle-Diseases and pests) (Trichomoniasis)

KOZNOV, N. A. and YEGOROV, V. G. (Candidate of Veterinary Sciences and Oblast Veterinary Bacteriological Laboratory, Smolensk Oblast)

"Concerning the epizootiology, diagnosis and therapy of leptospirosis of calves"

Veterinariya, Vol. 38, no. 7, July 1961, pp. 39

REZNOT, N. A - Carri. Vet Soi

KOZNOV, N.A., kand. veter. nauk; YEGOROV, V.G.

Epizootiology, diagnosis, and therapy of leptospirosis in calves. Veterinariia 38 no.7:39-40 Jl 161. (MIRA 16:8)

1. Oblastnaya veterinarno-bakteriologicheskaya laboratoriya, Smolenskoy oblasti.

(Smolensk Province-Leptospirosis)
(Smolensk Province-Calves-Diseases and pests)

KOZNOV, N.A., kand.veterinar.nauk; YEGOROV, V.G.

Leptospirosis in calves. Veterinariia 40 no.9:20-21 S '63. (MIRA 17:1)

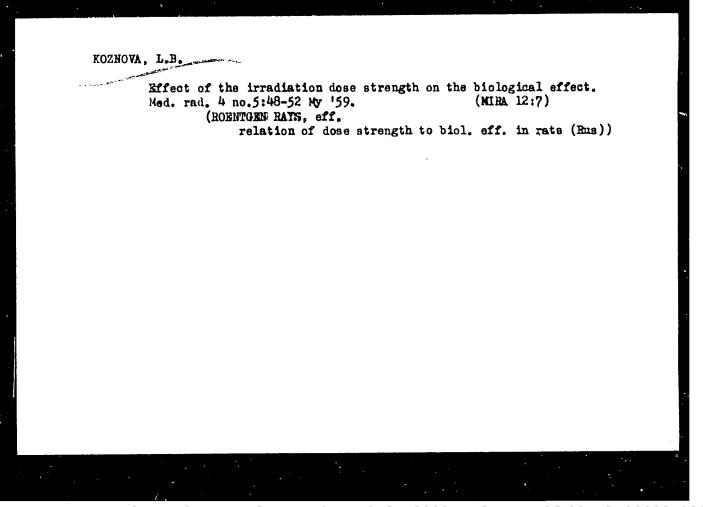
1. Smolenskaya oblastnaya veterinarnaya laboratoriya. 2. Zaveduyushchiy epizootologicheskim otdelom Smolenskoy oblastnoy veterinarnoy laboratorii (for Yegorov).

Olfactory disorders in human subjects exposed to radiations. Mod. rad. 2 no.2:26-30 Mr-Ap '57. (MIRA 10:7) (ROENTORN RAYS, effects, olfactory disord. in humans (Rus)) (SMELL, olfactory disord. in irradiated humans (Rus))

DOMSHLAK, N.P., KOZHOVA, L.B.

Findings on the administration of urotropin in the treatment of radiation sickness [with summary in English]. Med.rad. 3 no.2: 78-80 Mr-Ap'58 (MITHENANINE, ther.use radiation sickness (Rus)) (ROENTGEN RAYS, inj.eff. radiation sickness, ther., methenamine (Rus))

## "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825920



DOMSHLAK, M.P.; DARENSKAYA, N.G.; KOZNOVA, L.B.; KHRUSHCHEV, V.G.

Problems in experimental techniques of radiation effects and certain radiobiological data. Med.rad. 4 no.12:3-11 D 59.

(RADIATION EFFECTS)

(MIRA 13:5)

KOZNOVA, L.B.; KHRUSHCHEV, V.G.

Some data on radiation effects with high dosage intensity. Med.
(MIRA 14:2)
rad. 5 no.10:61-67 160.
(RADIATION—PHYSIOLOGICAL EFFECT)

376hi.

S/638/61/003/000/002/005 D296/D307

27.1220

AUTHORS:

Darenskaya, N.G., Domshlak, M.P., Koznova, L.B., and

Khrushchev. V.G.

TITLE:

A γ-ray device with an activity of 32,000 g-equivalent

radium (Results of some biological investigations)

SOURCE:

Trudy Tashkentskoy konferentsii po mirnomu ispol'zovaniyu atomnoy energii, v. 3, Tashkent, Izd-vo AN Uzb.

SSR, 1961, 63 - 69

TEXT: The authors describe in detail a new powerful  $\gamma$ -ray device:  $\Im \Gamma O$ -20 (EGO-20) suitable for experimental irradiation of all types of laboratory animals. The device was used to study the biological effects of very large doses of radiation to corroborate reports, according to which exposure to radiation at a higher rate produces less marked biological effects than the same dose administered over a longer period. The device consists of 2 containers, the first of which measures 280 x 140 x 380 cm in size and serves as receptacle for the CoOO elements; in this container the elements are assorted, arranged and put into working position in the desired strength and Card 1/3

S/638/61/003/000/002/005 D296/D307

A  $\gamma$ -ray device with an activity of ...

order. This part also contains 15 stainless steel tubes, in which the elements can be safely stored in case of accidents. The second container, 400 x 140 x 380 cm, includes an Al cylindrical radiation chamber. 150 standard elements of  ${\rm Co}^{60}$ , of cylindrical shape, 82.5 mm long and 12 mm in diameter, with an activity of 20 ± 25 g - equivalent radium each are used. They are arranged in 15 linear sources in groups of 10, each of which is 100 cm long. The total activity amounts to 32,000 g - equivalent radium. A hydraulic mechanism shifts the elements from storage position into working position in which latter 5, 10 or 15 linear sources can be aimed at the radiation chamber. To decrease the solubility of metallic cobalt the system is filled with distilled water which is never exchanged but periodically filtered free of dust and other contaminations. In the biological experiments 30 dogs, 20 rats and 45 mice were exposed to 15,000, 30,000 and 50,000 r respectively. To compare the biological effect of rays emitted by the old and new device the authors administered the 3 doses mentioned above at a rate of 387-500 and 2000 r/min respectively. The biological effect was assessed by the survival time after the exposure and by the time of onset of convulsions. In dogs no significant difference in the survival time could be observed, Card 2/3

A γ-ray device with an activity of ... S/638/61/003/000/002/005

but rats exposed to the higher rate (2000 r/min) lived 27 hrs. 50 min. compared to an average of 10 hours 27 min. in rats exposed to the lower rate (387-500 r/min). In mice the difference was even more striking: 20 hours 28 min. and 4 hours 26 min. respectively. Convulcions appeared very early in dogs exposed to the lower rate of radiation: after 10 - 20 min. (total dose 15,000 r) and 4 min. (total dose 30,000 r) respectively. Dogs exposed to 2000 r/min showed the first convulsions after 40-45 min. (15,000 r) and 20-40 min. (30,000 and the onset of convulsions was about twice as long in animals exposed to the higher rate. These findings are consistent with the specific features an increase in the rate of administration may tion doses. There are 3 figures and 3 tables. The most important Research, 1, 5, 437-447, 1954.

ASSOCIATION: Ministerstvo zdravookhraneniya SSSR (USSR Ministry of Card 3/3